

CLAIMS

1. A solid lubricant for being embedded in pores or grooves formed at a sliding surface of a sliding member body, comprising 5 to 30% by volume of a polyethylene resin, 20 to 60% by volume of a hydrocarbon-based wax and 10 to 60% by volume of melamine cyanurate.

2. A solid lubricant according to claim 1, wherein said hydrocarbon-based wax is at least one material selected from the group consisting of paraffin waxes, polyethylene waxes and microcrystalline waxes.

3. A solid lubricant according to claim 1 or 2, further comprising as an additional component, at least one compound selected from the group consisting of higher-fatty acids, higher-fatty esters and higher-fatty amides in an amount of 1 to 10% by volume.

4. A solid lubricant according to any of claims 1 to 3, further comprising as an additional component, a metallic soap in an amount of 3 to 20% by volume.

5. A solid lubricant according to any of claims 1 to 4, further comprising as an additional component, a phosphate in an amount of 3 to 15% by volume.

6. A solid lubricant according to any of claims 1 to 5, further comprising as an additional component, a high-molecular weight polytetrafluoroethylene resin in an amount of 0.5 to 10% by volume.

7. A sliding member comprising a sliding member body, and the solid lubricant as defined in any of claims 1 to 6, which is embedded in pores and grooves formed at the sliding surface of the sliding member body.